

APPARATUS FOR SECURE STORAGE OF VEHICLE ODOMETER VALUES AND METHOD THEREFOR

ABSTRACT OF THE INVENTION

5 An improved vehicle odometer is provided with an encoder and a microcontroller. The
encoder has a unique key that configures an encryption algorithm. The encryption algorithm can be
in the form of circuitry or software or any combination there between. The encoder receives a
increment signal from the vehicle indicating that the vehicle has traveled a pre-determined distance.
The encoder then increments the odometer-related value and then encrypts it with the encryption
10 algorithm. The encoder then wraps the encrypted odometer-related value into a data packet with a
serial number. Only a suitably equipped computing device, such as a microcontroller, identify and
correctly decrypt and process the encrypted odometer-related value, thereby preventing the tampering
of the vehicle's odometer.